

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 05158703  
 PUBLICATION DATE : 25-06-93

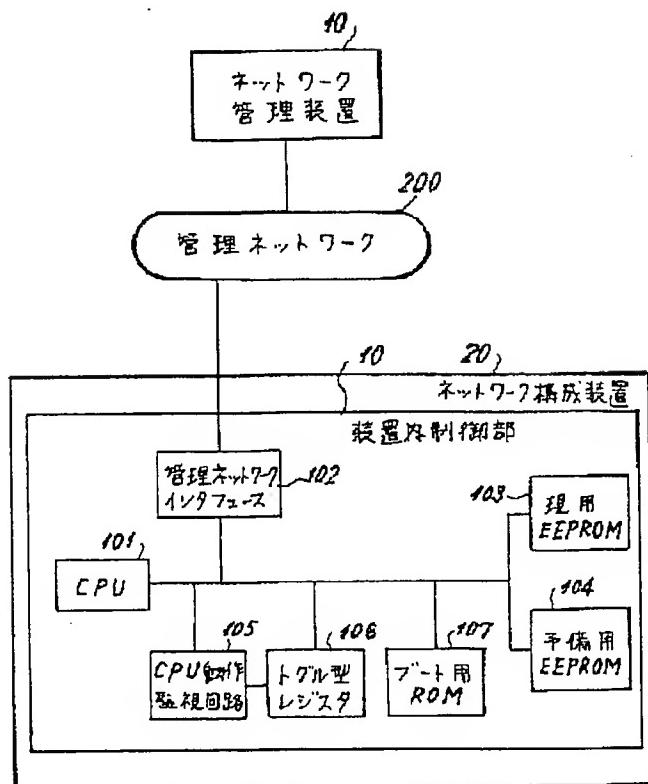
APPLICATION DATE : 02-12-91  
 APPLICATION NUMBER : 03341769

APPLICANT : NEC CORP;

INVENTOR : TANABE JUNJI;

INT.CL. : G06F 9/445 G06F 13/00

TITLE : REMOTE DOWN LOADING SYSTEM  
 FOR SOFTWARE



**ABSTRACT :** PURPOSE: To perform a remote down loading operation of software in an on-line state without stopping the device functions when the software of plural devices forming a network are updated.

CONSTITUTION: A network forming device 20 contains a working program memory EEPROM 103 and a stand-by EEPROM 104 so that a broadcast type communication and a 1-1 type communication are available in a control network 200, and carries out the simultaneous software down loading operations in the broadcast communication from a network controller 10 to plural devices and a confirming operation in the 1-1 communication method. Furthermore a state set before the switching to the EEPROM 103 is reset in an abnormal state with the rise processing of a ROM 107. Thus the communicating function of the network 2 is assured.

COPYRIGHT: (C)1993,JPO&Japio